

**Subject:** Re: Pattern generation mode on X6-400M  
**From:** Tech Support <techsprt@innovative-dsp.com>  
**Date:** 2/4/2015 2:11 PM  
**To:** Kevin Kloke <KKloke@csir.co.za>

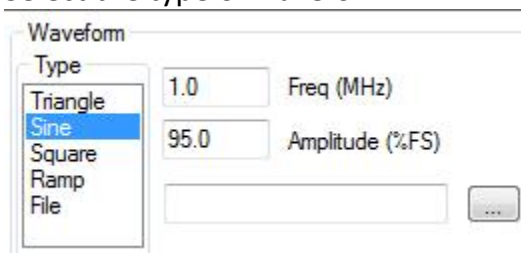
Hi Kevin,

This explanation is from our firmware designer/manager:

Pattern mode means the host loads waveforms to the on-board memory and then just play them back from memory with any number of repetitions and jumps in between patterns as specified in the commands. The Arb application software has some predefined patterns (sine, square, triangle, ...) and also allows the use of a user defined pattern in a file.

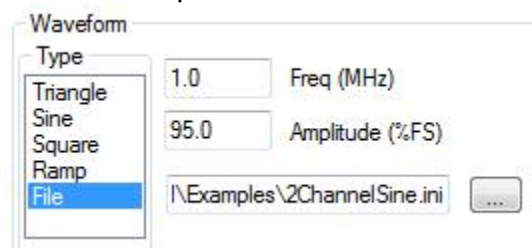
The Arb.exe example program uses pattern mode.

Select the type of waveform:



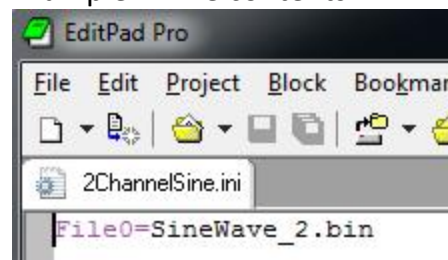
If you use Waveform Type = File, choose a file.ini file, not a file.bin file. The ini file contains the .bin files used.

Arb.exe setup:



Example ini files are located in the root folder C:\\Innovative\\X6-400M\\Examples

Example ini file contents:



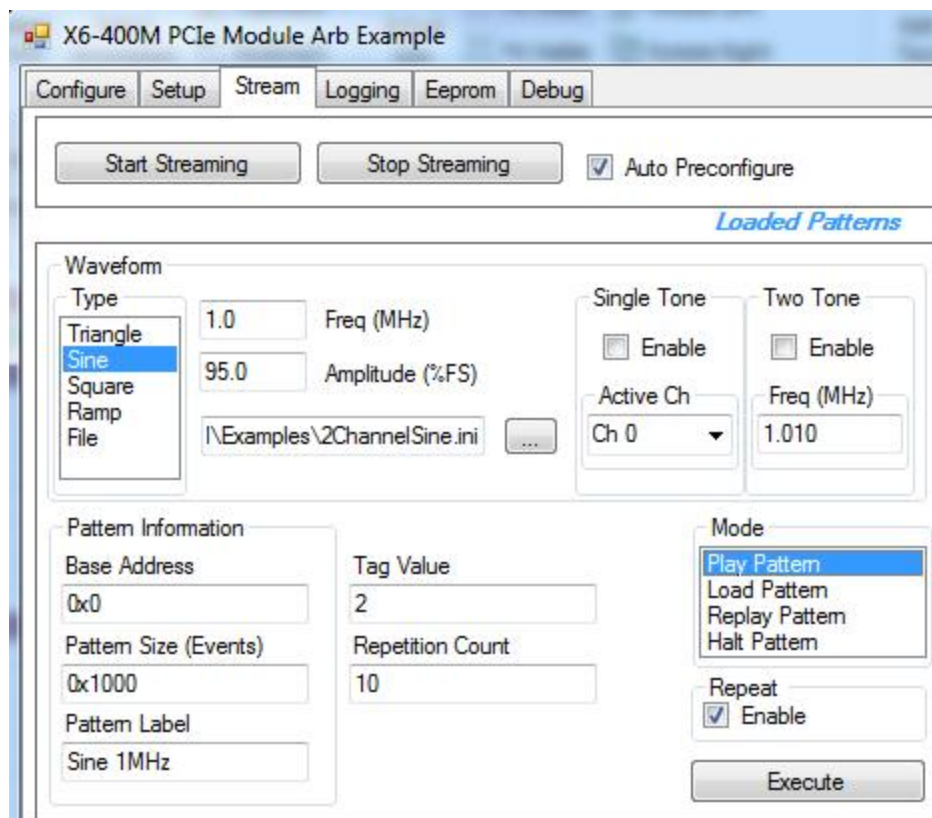
Set the Base Address to 0x0 and Pattern Size to 0x1000 for the first pattern.

Give the pattern a name with Pattern Label.

Select Load Pattern.

Click the Execute command button.





Play the selected pattern with this sequence:

1. Click "Start Streaming",
2. Click "Execute",
3. Click "Software Trigger" in the upper - right section of Arb.exe GUI,

Stop the selected pattern with this sequence:

1. Click "Stop Streaming",

I don't think you need to use "Halt Pattern" and on some products this caused problems. Try this to see if it is necessary.

I hope this helps.

Thanks,

Ron

On 2/4/2015 2:46 AM, Kevin Kloke wrote:

Hi

Can you please send me some information on the Pattern generation mode of the X6-400M, from the user manual it is not clear exactly what one can setup and what the limitations are?

I would specifically like to see an example of a software-defined pattern that can be played out

from the buffer memory. Is this a separate mode to framed or PRI mode?

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